

THE MOUNT DIABLO AMATEUR RADIO CLUB'S

# CARRIER

## ARRL SPECIAL SERVICE CLUB

Volume XLII - Issue 01 - January 1995

Editor - Greydon H. Hicks, KC6SLE

Distribution: Jay Caldis, KT6Y, Walt Ebbett, KB6QIB,  
and George Jones, KI6YK

The opinions expressed in the CARRIER are solely those of the author and do not necessarily reflect the opinions of either the Board of Directors or membership of MDARC unless the author is a member of the MDARC Board of Directors and is speaking in an official capacity.

### WINNING SEASON FOR MDARC VICE PRESIDENT

*John Stuart, KM6QX, VP and MVH*

As the honored recipient of the MDARC Ham of the Year Award, I feel obliged to offer an explanation, and at the same time to thank you, the MDARC Team, for a Winning Season.

I don't consider myself one of MDARC's star players. Instead, I think my role was more like one of the hidden coaches up in the press box, always watching for the opportunity for a good "play." Some of my better "plays" this year were: the Pt. Reyes Shuffle, the Marconi Center Run, the APRS Plot, the Trail Ride Rescue, and the Youth Net Diversion. Fortunately we were not rattled enough to use my 1993 play, the Quake-Net Pileup. Towards the end of the season I did resort to using the digipeater two-step full-duplex (double-talk) grab the money and run play. Running-back Barry, KC6WYA, ran right up the rocky ridge and scored a node-able victory!

I also drafted some memorable players for our 2<sup>nd</sup>-half-time shows. There was: APRS specialist Swaggart, Hum-Stopper Hall, KPH arc-sparker Reese, WW2 jeeper Mollberg, Packet LANer Overacker, AMSAT runner Croskey, 911er Matzen, and Hubble fixer Peters.

So if you continue to play as hard as you did last year, I'm sure I can come up with a few new "plays" and the MDARC Team will have another winning season! 73-Hutt!

Dear Editor,

Over the years, the proceeds from PACIFICON have grown greatly. This year over \$10,000 was earned -- thanks to the tremendous effort and generosity of MDARC (and other) volunteers. The total proceeds from three years of PACIFICON conventions has netted the club over \$20,000. Now is the time for MDARC to consider how to invest that money to meet the goals of our charter -- "To further the interests of Amateur Radio" and "to be of service to the community".

The MDARC scholarship program is an excellent first step and one that all members can be proud of. But as the treasury climbs with no specific plan for that money, we would like to propose the following option. That the proceeds from the upcoming PACIFICON be devoted to a worthwhile charity in the local area. Several possibilities come to mind. There are local food banks, homeless shelters, the Children's Hospital, or possibly, since PACIFICON is right before the holidays, the Contra Costa Times' "Share the Spirit" program. Promoting Amateur Radio should also be considered -- especially ways to help young HAMs get into Amateur Radio.

Whatever the charity is, MDARC could be proud to host not only the best convention in the western US (Maybe in the entire US?), but support an even greater cause.

Obviously some of the proceeds would be needed to sponsor the following convention, and pay for the scholarship program, but funds left after that could be devoted to an organization that would have wide support from MDARC members.

We urge the incoming board to consider this proposal, and also urge members to call the board members and express your views.

73,

Pete Tormey, N6GN  
John McKenzie, KD6QEC  
Vicki Zumwalt, N6KLS  
Jane Walker, N6NVA  
Glenn Zumwalt, KJ6EN  
Jeff Jones, AB6MB

**BOARD OF DIRECTORS MEETING MINUTES**

**December 12, 1994**

Richard M. Shappee, WA5HQJ  
Secretary, MDARC

The meeting was called to order at the 7:30 PM at the home of MDARC Club President, Dick, AA6DL. Visitors included Ray Gaschk, KD6BLS, Dick Brown, KT6X, George Roush, WB6OFH, Bertha Roush, KE6ELP, Paul Girard, KC6TZU, and Sam Lipsome, KO6JR.

The minutes of the last meeting were approved as written and read at the meeting. Membership Chairman George, KI6YK, announced that the membership stood at 612 and that he had received 221 renewals to date. Excluding the members who had joined since October, 575 members would need to renew to have 100%, an event not likely to happen. The issue of the drawing from the first 100 renewals was discussed. It was agreed that the incentive was to get early renewals, with the reward of a free membership in the Rocky Ridge Repeater Group. Therefore, those joining since October would not be included as they had not renewed.

George, WB6OFH, advised that he had 177 signed up for the Christmas Party. Secretary Richard, WA5HQJ, told the group that based upon his discussion with the restaurant that we could handle a few last minute members, not to exceed a total of 180. The Board voted to increase the number of prizes to be given out because our expenses otherwise would not be as high as budgeted. Accordingly, authorization was given to buy up to \$100 in See's candy and \$50 in other hardware type prizes. Secretary Richard agreed to purchase the candy and Member Dick, KT6X, agreed to buy the other items.

PACIFICON '94 Chairman Dick, KT6X, gave a report on comments he had received concerning the convention. Most were favorable but one person complained that our grand prize was not grand enough. He also complained that the banquet speaker did not talk on a HAM-related subject. The Board noted the comments and the source. Dick also gave a detailed report of the recent Director's meeting.

Treasurer Stan, WU6P, gave the treasurer's report and advised that he would have the year end report in the CARRIER. A discussion was held concerning the advisability of investing more funds in money market accounts. The comment was made that the next slate of officers and new treasurer would be in place in two weeks and it might be prudent to allow them to make the decision. It should be noted that Stan had found a very favorable rate and term and this was not the issue. It was a case of whether it was proper to make such a commitment just prior to the new officer's terms. It was decided to wait.

The MDARC Scholarship program was discussed. It was pointed out that we are not getting the responses we would like. The reasons were speculated to be a small population of candidates to begin with and the lack of pressure from school counselors to get the students to apply. It was agreed that we should re-examine our program.

Based upon the costs of prizes for the 1994 Christmas Party, it was moved, seconded and passed that we would increase the budget for 1995 by \$300.

The matter of the pending Pleasant Hill Antenna ordinance was discussed. It was agreed that we had some expertise in these matters but that we needed the Pleasant Hill amateurs to take the lead with their city council. A number of names of persons who might become involved were proposed, including the Pleasant Hill Police Amateur Radio Club.

Ray, KD6BLS, was at the meeting to explore the possibility of our taking an advertisement for his antenna products. After some discussion, it was decided that the costs and other factors should be studied before making any commitment to publish more ads.

George, KI6YK, advised those present that he needed the officers lists from our various organizations prior to January 31, 1995. It was also reported that the new W6CX-3 Keyboard-to-Keyboard digipeater was in place on Rocky Ridge. This was all accomplished in less than 30 days through the hard work of a number of people. Barry Winkler, KC6WYA, was directly involved and it was the wish of the Board that he be recognized for his accomplishment.

It was agreed that the next meeting would be held January 23, 1995, at the home of Vice President John Stuart, KM6QX. There being no other business for the board, the meeting was adjourned at about 9:45 PM. The members enjoyed the refreshments provided by President Dick, AA6DL and Doris, KC6SUA.

**JANUARY MDARC MEETING SPEAKER**

**John Stuart, KM6QX**

**Our January meeting program will be presented by Mark Gendron from the Caltrans 680/24 Project Public Information Office. I have asked him to describe the communication technology being used on the television camera and vehicle sensor network they are installing on most of the major Bay Area highways. (Maybe we can get a video feed for ATV?) He will also give a briefing on the 680/24 Interchange Project.**



## MDARC CHRISTMAS PARTY

BY, Nicholas Claus, NPOLE

It was my great pleasure to take a few hours from my chores at the North Pole and attend the MDARC Christmas party. For those of you who were not there, you missed a grand time! The dining room at Zio Fraedo's was decorated for Christmas, with wreaths and decorations along the walls. The sight of multiple Christmas trees greeted the members as they arrived. And the hors d'ouvers! They were great as was the menu. Soup, salad, delicious sour dough bread, either ham or turkey, vegetables, and ice cream for dessert. The turkey was served over dressing and dark meat. All so good.

Traditional Christmas music was played throughout the dinner. The entertainment was provided by the members through the singing of Carols to the accompaniment of Lee Stuart on the piano. Very nicely done, I must say.

At the end of dinner, awards were presented to members by Pete Perata, KA6SHE. The Ham of the Year Award was presented to John Stuart, KM6QX. John, as VP of the club and program chairman has brought us a wide variety of programs and field trips. The Killjoy Key Award went to Dick Tomsik, KJ6YE, in recognition of his significant contributions to the club including his outstanding efforts at other clubs representing not only PACIFICON but MDARC. W6CX awards were presented to Greydon Hicks, KC6SLE, George Jones, KI6YK and Dick Brown, KT6X for their contributions to the club during the year. Joe Gregory, WA6DQN, was recognized for his years of service with a Public Service Award. The Bright Idea Award was presented to Barry Issaks, KE6YD. Barry has been a strong influence in his school and was instrumental in astronaut communications, both by radio and in person. A special award and proclamation was given to retiring MDARC President, Dick Schulze, AA6DL. As a sort of final award, Dick Brown, KT6X, Chairman of PACIFICON

'94 and Jay Caldis, KT6Y, Treasurer of PACIFICON '94 presented an oversized check to President Dick, AA6DL, and MDARC Treasurer, Stan Christian, WU6P. The check represented the profit of PACIFICON '94 in the amount of \$10,468.

I was pleased to be able to give presents to children of all ages. I wasn't quite prepared for adults, but aren't we all just big kids, too.

Thanks are due the members of the Christmas Committee. George and Bertha Roush (WB6OFH and KE6ELP) arranged for the tickets, Richard Shappee, WA5HQJ, and Dick Schulze, AA6DL, made the arrangements with the restaurant. Richard also designed and printed the program and song sheets and acted as Master of Ceremonies for the evening. And as usual at MDARC meetings, Lauren Styles, WA6CIE, handled the prize disbursements. And speaking of prizes, both Lauren and Dick Brown, KT6X, arranged for the purchase of the 'ham' prizes whereas Joyce Shappee, KD6PNO purchased Mrs. See's candy, also given out as prizes. Harry Styron, K6MFV, won the hand held radio which was donated by HRO. Other prizes too numerous to mention were procured at favorable prices from the Base Station, who also donated prize certificates. Thanks goes to our two supporting companies for their help all year long. Special thanks also go to Joyce, KD6PNO who helped me read the names on the prizes for the children, as i had forgotten my reading glasses. A drawing was held among the first 100 who had renewed their club membership. The winner of a free membership in Rocky Ridge was Tim Barrett, WB9BIV.

So until next year and the Christmas season, 73 to one and all.

## THE BASE STATION

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and Reference Guides  
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A.O.R. Ace Scanning Receivers  
Bencher Paddles  
B. & W. Antennas, Coax Switches & Accessories  
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Butternut Antennas

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**MEMBERSHIP DIRECTORY UPDATE**

by George Jones, KI6YK

We are very pleased to welcome the following new members:

BARRAGAN, Deborah L. (Debbie); KE6MRK, Technician  
1822 E. 24th Street, Oakland, CA 94606

BELTON, Jan; SWL; 301 Bruno Ave., Pittsburg, CA  
94565; (510)-439-2812(h)

CARPENTER, Mike; KE6OEX, Technician  
P.O. Box 2313, Martinez, CA 94553  
(510)686-6239(h)

COVENTRY, Marc A.; KE6OHN, Technician  
225 Christie Drive, Martinez, CA 94553  
(510)229-4756(h)

GREENWOOD, Jim; KE6IRT, Technician  
2301 Sycamore Dr. #178, Antioch, CA 94509  
(510)729-1168(h)

HEGERLE, Betty; KE6FSP, Technician  
5509 Colorado Dr., Concord, CA 94521  
(510)672-1041(h)

JORDAN, Jack; VE3IMV, Advanced (Canada)  
584 Columbia Circle Dr., San Ramon, CA 94583  
(510)551-3347(h), (510)867-2001(w)

LEPAK, Dennis; KE6KKL, Technician  
542 Center Ave. #210, Martinez, CA 94553

RAINES, Lester L. (Les); WB9SEZ, Technician  
P.O. Box 763, Clements, CA 95227  
(209)759-3620(h)

RAINES, Roberta F. (Bert); WB9YBP, Technician  
P.O. Box 763, Clements, CA 95227  
(209)759-3620(h)

SCHWEICKERT, Christopher; KE6KAV, Advanced  
35 Cora Court, Walnut Creek, CA 94596

SCHWEICKERT, Heidi; KE6LXT, Technician  
35 Cora Court, Walnut Creek, CA 94596

SCHWEICKERT, Kelsey; KE6LXW, Extra  
35 Cora Court, Walnut Creek, CA 94596

SCHWEICKERT, Tom; LO6LO, Advanced  
35 Cora Court, Walnut Creek, CA 94596  
(510)947-1040(w)

STANTON, Karen; KE6NDA, Technician  
349 Blackleaf, Pittsburg, CA 94565  
(510)439-0189(h)

WHITELY, Barbara L.; KE6DMA, Technician  
3843 Concord Blvd., Concord, CA 94519  
(510)685-1905(h)

WHITTEN, Michael (Mike); KB6FHC, Technician  
2128 Apricot Court, Pittsburg, CA 94565  
(510)439-7236(h)

WILLIAMS, Ethelmae; SWL; 813 Wiget Ln., Walnut Creek,  
CA 94598; (510)934-3036(h)

WOOLF, Rose; SWL; 362 Shoreline Dr. Pittsburg CA  
94565; (510)439-5943(h), (510)676-1633(w)

Congratulations to the following on their upgrade and/or new call:

**Stuart Cannon:** Technician, KE6OFD

**Charles Garrett:** KO6HC

**Barry Isseks:** Extra

**Bill Leppard:** Extra

**Alec MacPhail:** Technician, KE6OFJ

**Bill Moresi:** Advanced

**Mary Peterson:** KO6AE

**Leanna Sarty:** General

**JC Smith:** Extra

**Anthony Stanton:** Extra, AC6GM

**Frank Williams:** Extra

**Andrs Ziedins:** Technician

**Bernie Zurlo:** General

Please note the following changes:

**Larry Jordan's** new address is 399 Schooner Way,  
Pittsburg, CA 94565.

**Gordon Schunick's** new address is 105 Old Adobe Rd., Los  
Gatos, CA 95030. His home phone is (408)378-7337.

**Mitch Vollert's** new address is 105 Reflections Dr., San  
Ramon, CA 94583-4709

**CLUB MEMBERSHIP RENEWALS**

By now you have probably renewed your MDARC membership for 1995. If not, you better hurry because your membership will be delinquent if not renewed by January 31, 1995.

**MDARC'S 1995 MEMBERSHIP DIRECTORY**

The new club Membership Directories will be going to press early in February, 1995. Which is another good reason to be sure you have renewed your club membership before then, since we're sure you'll want to be included in the Directory. Look for an announcement in the February Carrier about when and where you may obtain a 1995 Directory. All the 1994 Directories have been distributed.

**The Spell Checker**

I have spelling checker,  
It came with my PC.  
It plainly marks four my revue  
mistakes eye can knot sea.  
Iran this poem threw it.  
I'm sure your please to no  
Its letter perfect inn its weigh,  
My checker toiled me sew!

*Written by Cindy Speer via W5YI Report and  
reprinted from the Nittany Amateur Radio Club,  
Newsette.*

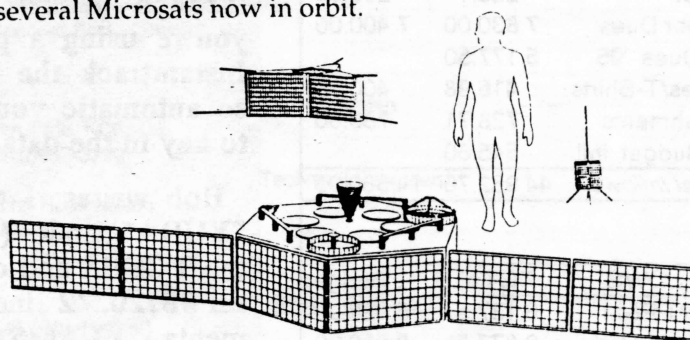




I WONDER IF LOADING THE FLAGPOLE UP AS AN ANTENNA WILL BOTHER SPOT

## NOT A LIGHTWEIGHT!

Shown here is AMSAT's Phase 3D satellite as it will appear after being lofted into space by the European Space Agency's Ariane 5 launcher. In the middle of the "top" of the satellite—the side that will always be pointing toward Earth once the satellite is in orbit—is the nozzle of the motor that will provide the boost into final orbit. Surrounding the nozzle are the antennas for the various bands of operation. For comparison, above the Phase 3D satellite to the left is a scale drawing of AMSAT's successful OSCAR 13 satellite; in the center is a human outline, also drawn to scale; and to the right is one of the several Microsats now in orbit.



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(800) 854-6046  
Rich, WA9WYB, Mgr.  
I-880 at 23rd Ave ramp

**DENVER, CO 80231**  
8400 E. Iliff Ave., #9  
(303) 745-7373  
(800) 444-9476  
Joe, KD8GA, Mgr.

**SAN DIEGO, CA 92123**  
5375 Kearny Villa Rd.  
(619) 560-4900  
(800) 854-6046  
Tom, KM6K, Mgr.  
Hwy. 163 &  
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**PHOENIX, AZ 85015**  
1702 W. Camelback Rd.  
(602) 242-3515  
(800) 444-9476  
Gary, WB7SLY, Mgr.  
East of Highway 17

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Tom, KB6LUC, Mgr.  
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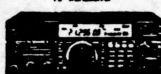


IC-D1A  
2M/440/1.2 Tri-Band  
IC-W21AT/IC-V21AT  
2M/440 2M/220  
IC-20XAT, 2M  
IC-T21A, 2M

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### IC - 737A

HF Transceiver



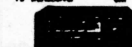
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TH-22AT

TH-79A  
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SW Optional  
DTSS Built-in  
IC Memories  
DTMF Memories  
Built-in CTCSS Enc./Dec.  
User-Friendly Memo Sys.  
CALL NOW FOR  
INTRO SPECIAL!

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2W Standard, 5W opt.  
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Built-in VOX & CTCSS  
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### DR - 600T



40W/25W - Airband RX  
Detachable/Removable Head  
Keyboard Inq. entry from microphone!  
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MT DIABLO AMATEUR RADIO CLUB TOTAL INFLOWS, OUTFLOWS, 1994		
INFLOWS	TOTALS	Budget
BalFwd12-31-93	5,227.96	
Pacificon'93/94	18,178.61	
Auction	2,260.46	2,500.00
Christmas Party	1,910.00	1,200.00
Door Prizes	1,509.00	1,700.00
Education	543.00	
Insurance	394.77	400.00
Interest	230.17	200.00
Member Dues	7,830.00	7,400.00
" Dues '95	5,177.50	
Patches/T-Shirts	416.98	400.00
Refreshments	728.71	700.00
Non-Budget Infl.	545.60	
<i>Total Inflows</i>	44,952.76	14,500.00
OUTFLOWS	TOTALS	Budget
Carrier PP&M	6,137.57	5,020.00
Christmas Party	2,877.51	2,560.00
Door Prizes	1,796.82	1,500.00
Education	1,030.99	200.00
Field Day	271.76	150.00
Insurance	1,179.00	1,200.00
Membership	1,676.86	1,400.00
Patches/T-Shirts	339.76	400.00
Picnic	525.91	500.00
Refreshments	612.80	600.00
Rent/Coffee	825.00	900.00
Scholarship	1,000.00	
State Filing Fees	15.00	20.00
Telephone	48.78	50.00
Non-Budget Out	1,666.60	
<i>Total Outflows</i>	20,004.36	14,500.00
Total Inflows	44,952.76	
Total Outflows	(20,004.36)	
Prev Mo Bk Bal		
<i>Book Balance</i>	24,948.40	
MM Acct Bal	5,616.21	
C/D due 4/13/95	5,010.52	
C/D due 7/15/95	10,498.00	
Ckng Acct Bal	3,823.67	
<i>Bank Balance</i>	24,948.40	
S. Christian		
Club Treasurer		

If you are using one of the computer software programs that track the satellites and display their orbital positions, you may have need from time to time to enter the Keplerian elements which describe the satellites' characteristics. Bob Vogt, KN6MC has discovered how easily this can be done through packet radio! If you're using a program like Instanttrack the operation is so automatic you don't have to key in the data!

Bob writes: I tied into the "YUBA" node (144.99) and the YCBBS and copied bulletin #8720. '2 line orbital elements 112.AMSA' to a file which I called 'ORBITS'. Then", he says, "using the program menu in Instanttrack V1.00 I was successful in updating all the satellites displayed on that bulletin."

Although the bulletin contains some extraneous lines of information, the program allows you to skip any non valid data by pressing <ENTER>. When it recognizes the first line of a valid data set it updates the entire file almost instantaneously.

Bob says, "If you have ever manually updated satellite elements as I have, you will find this automation somewhat pleasant. And just think, you don't even need to spend a nickle on a phone call! That nickle can help pay for no-doze pills which you will need when you get up at 2:00 AM for a particularly good pass of your favorite satellite." -- KN6MC aka Robert Vogt

SILENT KEY

W6CMG KARL RODEBAUGH

Karl was an old time CW operator who lived in Lafayette most of his life. While I don't recall him ever being a member of the MDARC, he was always ready to help us newcomers learn the fine art of CW. His great fist will be missed.

Brad B. Sage K6JPR



**MDARC/RRRG QUAKE-NET INSTRUCTIONS**

Immediately after feeling an earthquake, listen to 147.060/+(100 pl).

When frequency is clear, quickly and clearly transmit in the following sequence::

LOCATION, OBSERVATION, NAME and CALL SIGN.

If a Hospital or ARES/RACES net control is established, relinquish use of repeater and break only with urgent traffic using your CALL SIGN and LOCATION or CITY

**The Mount Diablo Amateur  
Radio Club**

P.O. Box 23222  
Pleasant Hill, CA 94523

**Meetings:**

Third Friday Each Month  
8:00 PM / 2000 hours  
Our Savior's Lutheran Church  
1035 Carol Lane, Lafayette, CA

**Club Officers**

**President:**

Larry Gansz, KB2GV  
(510)356-2411

**Vice President:**

John Stuart, KM6QX  
(510)283-2797

**Secretary:**

Richard Shappee, WA5HQJ  
(510)682-1644

**Treasurer:**

Frank Williams, WA6NSC  
(510)934-3036

**Membership Chairman:**

George Jones, KI6YK  
(510)837-9316

**Emergency Coordinator:**

Sam Lipson, KO6JR  
(510)229-5705

**Directors:**

Tom Seabury, KC6SYG  
(510)837-4433  
Ray Gaschk  
(510)933-3242

**MDARC-PACIFICON HOT LINE**

(510)932-6125

**Contra Costa County  
ARES/RACES Nets**

Thursdays, 1900 Hours

Central County - 145.680/s

Jim Brunk, N6BHX  
(510)372-8248

East County - 146.535/s

Jim Tittle, KC6SOE  
(510)432-3220

South County - 146.355/+(100 pl)

George Jones, KI6YK  
(510)837-9316

West County - 145.110/-

Rachel Lewellen, KB6LHR  
(510)233-5034

QSY to 147.735/- at 1920 Hours  
Meeting of all County  
ARES/RACES Nets

**The Rocky Ridge Repeater  
Group**

P.O. Box 23222  
Pleasant Hill, CA 94523

**Meetings:**

Third Wednesday Of Odd Months  
8:00 PM / 2000 hours  
Stonebrook Convalescent Center  
Concord Blvd., Concord, CA

**Chairman:**

Jim Tittle, KC6SOE  
(510)432-3220

**Technical Chairman:**

John Hendrickson  
unlisted

**RRRG Repeaters**

147.060/+(100 pl)  
224.780/-(077 pl)  
441.325/+(100 pl)  
ATV - Input - 1253.250  
Output - 427.250 (Cable CH 58)

**RRRG Nets**

Phone Net - Thursdays  
1930 Hours, 147.060/+(100 pl)  
Net Control: Jay Caldis, KT6Y  
ATV Net - Thursdays  
2000 Hours, Net Control:  
Mike Burke, KB6RMT,  
Alt.: Don Smith, W6NKF,  
Technical Net - Sundays  
1930 Hours, 147.060/+(100 pl)  
Net Control: Jeff Jones, AB6MB

**Contra Costa County  
Emergency Services HF Net**

First Thursday following  
first Wednesday,  
2000 Hours, 3.895 MHz  
Net Control:  
Unassigned

**Carrier**

Editor: Greydon H. Hicks, KC6SLE  
4517 Shellflower Ct., Concord 94518  
(510)798-1251  
Folding: Jay Caldis, KT6Y  
Mailing: Walt Ebbett, KB6QIB  
Labels: George Jones, KI6YK

**Sheriff's Amateur Radio Communications Team**

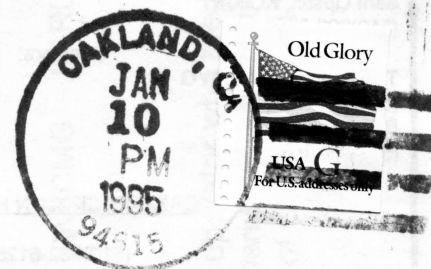
Clay Yale, N6YBQ  
(510)228-8223

The CARRIER is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). This publication is open to all members of MDARC and it is the policy of this Editor to publish all articles submitted by the membership as long as such articles are not obscene, pertain to Amateur Radio, are of interest to the members of MDARC and space is available. Articles are due by the first of each month and are accepted on a first come, first in basis. Articles should be submitted by packet, 144.93 mHz, KC6SLE @ WA6AEO.#NOCAL.USA.NA or packet mailbox, KC6SLE-1 or by modem to the Doug Smith's No Name Yet bulletin board, File area #23, at (510) 827-5714 or delivered to the Editor in ASCII format on or 3.5" computer disk. Articles published in the CARRIER may be reproduced provided that such reproduction credits both MDARC and the author of the article. Copyrighted articles will not be accepted for publication in the CARRIER.

**CALENDAR OF EVENTS**

Livermore Swapmeet	Las Positas College Livermore	First Sunday Each Month All Year, 7 AM to Noon
RACES Monthly Meeting	State OEC, Civic Dr. Pleasant Hill	First Wednesday Every Month, 7:30 PM
MDARC General Membership Meeting	Our Savior Lutheran Church 1035 Carol Ln., Lafayette	Friday January 20, 1995
Deadline for Carrier Articles	NA	Wednesday, February 1, 1995
Concord VEC Exam Session	Consolidated Fire Training Center 2945 Treat Blvd, Concord	February 05, 1995 1:00 PM
Fairfield HAM Exams Dick, AB6EY, 1-916-791-0268	Fairfield Senior Center 1200 Civic Drive, Fairfield	Last Saturday of each month 9:00 AM
RRRG General Membership Meeting	Stonebrook Convalescent Center 4367 Concord Blvd, Concord	Wednesday, January 18, 1995, 8:00 PM

**The Carrier**  
a newsletter of the  
**Mount Diablo Amateur Radio Club**  
P.O. Box 23222  
Pleasant Hill, CA 94523



**FIRST CLASS MAIL**



**NEXT MDARC MEETING IS JANUARY 20, 1995**  
**NEXT RRRG MEETING IS JANUARY 18, 1995**